

#### ABSTRACT OF THE DISCLOSURE

A plurality of multi-parameter monitoring tool assemblies are connectable over a communications network and are further in communication with a central controller.

Each of the tool assemblies is configured to interconnect with one or more sensor head

5 components which may be employable in the monitoring of water quality. According to the system described herein, the central controller may periodically communicate with one or more of the tool assemblies connected in the communications network and extract, process, and display information as to the configuration and operation of one or more tool assemblies.

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